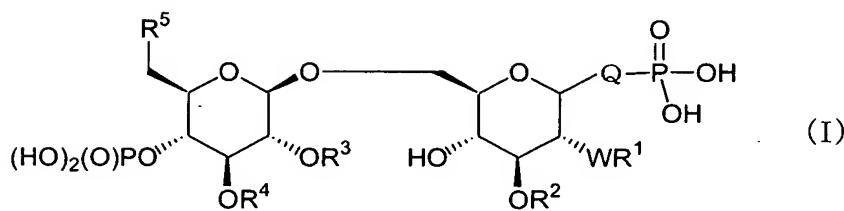


## CLAIMS

1. A compound represented by the following general formula:



wherein Q represents an oxygen atom, a C<sub>1</sub>-C<sub>3</sub> alkylene group, a -O-Alk- group or a -O-Alk-O- group (in which Alk represents a C<sub>1</sub>-C<sub>3</sub> alkylene group),

W represents an oxygen atom or a -NH- group,

R<sup>1</sup> (when W is a -NH- group) represents a C<sub>1</sub>-C<sub>20</sub> alkanoyl group which may be substituted by at least one group selected from the following Substituent group A, a C<sub>3</sub>-C<sub>20</sub> alkenoyl group which may be substituted by at least one group selected from the following Substituent group A or a C<sub>3</sub>-C<sub>20</sub> alkynoyl group which may be substituted by at least one group selected from the following Substituent group A,

R<sup>1</sup> (when W is an oxygen atom), R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup>, which may be the same or different, represent a hydrogen atom, a C<sub>1</sub>-C<sub>20</sub> alkyl group which may be substituted by at least one group selected from the following Substituent group A, a C<sub>2</sub>-C<sub>20</sub> alkenyl group which may be substituted by at least one group selected from the following Substituent group A, a C<sub>2</sub>-C<sub>20</sub> alkynyl group which may be substituted by at least one group selected from the following Substituent group A, a C<sub>1</sub>-C<sub>20</sub> alkanoyl group which may be substituted by at least one group selected from the following Substituent group A, a C<sub>3</sub>-C<sub>20</sub> alkenoyl group which may be substituted by at least one group selected from the following Substituent group A or a C<sub>3</sub>-C<sub>20</sub> alkynoyl

group which may be substituted by at least one group selected from the following

Substituent group A,

$R^5$  represents a hydrogen atom, a halogen atom, a hydroxyl group, a  $C_1$ - $C_6$  alkoxy group which may have an oxo group, a  $C_2$ - $C_6$  alkenyloxy group which may have an oxo group or a  $C_2$ - $C_6$  alkynyoxy group which may have an oxo group,

the Substituent group A consisting of a halogen atom, a hydroxyl group, an oxo group, a  $C_1$ - $C_{20}$  alkoxy group which may have an oxo group, a  $(C_1$ - $C_{20}$  alkoxy)  $C_1$ - $C_{20}$  alkoxy group, a  $C_1$ - $C_{20}$  alkoxy group, a  $\{(C_1$ - $C_{20}$  alkoxy)  $C_1$ - $C_{20}$  alkoxy $\}$   $C_1$ - $C_{20}$  alkoxy group, a  $C_2$ - $C_{20}$  alkenyloxy group which may have an oxo group, a  $C_2$ - $C_{20}$  alkynyoxy group which may have an oxo group, a  $C_1$ - $C_{20}$  alkanoyloxy group which may have an oxo group, a  $C_3$ - $C_{20}$  alkenoyloxy group which may have an oxo group and a  $C_3$ - $C_{20}$  alkynoyloxy group which may have an oxo group, or a pharmacologically acceptable salt thereof.

2. The compound according to claim 1, wherein W is a -NH- group and  $R^1$  is a  $C_8$ - $C_{18}$  alkanoyl or  $C_8$ - $C_{18}$  alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

3. The compound according to claim 1, wherein W is a -NH- group and  $R^1$  is a  $C_{10}$ - $C_{18}$  alkanoyl or  $C_{10}$ - $C_{18}$  alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

4. The compound according to claim 1, wherein W is a -NH- group and  $R^1$  is a  $C_{12}$ - $C_{16}$  alkanoyl or  $C_{12}$ - $C_{16}$  alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

5. The compound according to claim 1, wherein W is an oxygen atom and R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup>, which may be the same or different, are a C<sub>4</sub>-C<sub>18</sub> alkyl, C<sub>4</sub>-C<sub>18</sub> alkenyl, C<sub>4</sub>-C<sub>18</sub> alkanoyl or C<sub>4</sub>-C<sub>18</sub> alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
6. The compound according to claim 1, wherein W is an oxygen atom and R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup>, which may be the same or different, are a C<sub>8</sub>-C<sub>18</sub> alkyl, C<sub>8</sub>-C<sub>18</sub> alkenyl, C<sub>8</sub>-C<sub>18</sub> alkanoyl or C<sub>8</sub>-C<sub>18</sub> alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
7. The compound according to claim 1, wherein W is an oxygen atom and R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup>, which may be the same or different, are a C<sub>10</sub>-C<sub>18</sub> alkyl, C<sub>10</sub>-C<sub>18</sub> alkenyl, C<sub>10</sub>-C<sub>18</sub> alkanoyl or C<sub>10</sub>-C<sub>18</sub> alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
8. The compound according to claim 1, wherein W is an oxygen atom and R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup>, which may be the same or different, are a C<sub>12</sub>-C<sub>16</sub> alkyl, C<sub>12</sub>-C<sub>16</sub> alkenyl, C<sub>12</sub>-C<sub>16</sub> alkanoyl or C<sub>12</sub>-C<sub>16</sub> alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
9. The compound according to claim 1, wherein W is an oxygen atom, R<sup>1</sup> and R<sup>3</sup>, which may be the same or different, are a C<sub>12</sub>-C<sub>16</sub> alkanoyl or C<sub>12</sub>-C<sub>16</sub> alkenoyl group, which may have a substituent selected from the Substituent group A, and R<sup>2</sup> and R<sup>4</sup>, which may be the same or different, are a C<sub>12</sub>-C<sub>16</sub> alkyl or a C<sub>12</sub>-C<sub>16</sub> alkenyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

10. The compound according to claim 1, wherein W is an oxygen atom, R<sup>1</sup> and R<sup>3</sup>, which may be the same or different, are a decanoyl, dodecanoyl, tetradecanoyl, dodecenoyl, tetradecenoyl or octadecenoyl group, which may have a substituent selected from the Substituent group A, and R<sup>2</sup> and R<sup>4</sup>, which may be the same or different, are decyl, dodecyl, tetradecyl, dodecenyl, tetradecenyl or octadecenyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
11. The compound according to any one of claims 1 to 10, wherein the substituent selected from the Substituent group A is a fluorine atom, a hydroxyl group, a C<sub>1</sub>-C<sub>20</sub> alkoxy group, a C<sub>12</sub>-C<sub>14</sub> alkenyloxy group, a C<sub>12</sub>-C<sub>14</sub> alkanoyloxy group or a C<sub>12</sub>-C<sub>14</sub> alkenoyloxy group, or a pharmacologically acceptable salt thereof.
12. The compound according to any one of claims 1 to 10, wherein the substituent selected from the Substituent group A is a dodecyloxy group, a tetradecyloxy group, a dodecenyloxy group, a tetradecenyloxy group, a dodecanoyloxy group, a tetradecanoyloxy group, a dodecenoyloxy group, a tetradecenoyloxy group or an octadecenoyl group, or a pharmacologically acceptable salt thereof.
13. The compound according to any one of claims 1 to 12, wherein R<sup>5</sup> is a halogen atom, a hydroxyl group or an unsubstituted C<sub>1</sub>-C<sub>6</sub> alkoxy group, or a pharmacologically acceptable salt thereof.
14. The compound according to any one of claims 1 to 12, wherein R<sup>5</sup> is a fluorine atom, a hydroxyl group or a methoxy group, or a pharmacologically acceptable salt thereof.

15. The compound according to any one of claims 1 to 14, wherein Q is an oxygen atom, or a pharmacologically acceptable salt thereof.

16. The compound according to any one of claims 1 to 14, wherein Q is a phosphonoethyl group, or a pharmacologically acceptable salt thereof.

17. The compound according to any one of claims 1 to 16, wherein position 1 of the right-side glucose or glucosamine takes the  $\alpha$  configuration, or a pharmacologically acceptable salt thereof.

18. Phosphono 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- $\alpha$ -D-glucopyranoside,  
phosphono 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- $\alpha$ -D-glucopyranoside,  
phosphono 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- $\alpha$ -D-glucopyranoside,  
phosphono 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- $\alpha$ -D-glucopyranoside,  
2-(phosphonoxy)ethyl 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- $\alpha$ -D-glucopyranoside,

2-(phosphonooxy)ethyl 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- $\alpha$ -D-glucopyranoside,

2-(phosphonooxy)ethyl 6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2,3-di-O-dodecyl- $\alpha$ -D-glucopyranoside,

phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- $\alpha$ -D-glucopyranoside,

phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- $\alpha$ -D-glucopyranoside,

2-(phosphonooxy)ethyl 2,3-di-O-dodecyl-6-O- {6-O-methyl-3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}- $\alpha$ -D-glucopyranoside or

phosphono 6-O- {4-O-phosphono-3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenyl]- $\beta$ -D-glucopyranosyl}-3-O-dodecyl-2-O-[(R)-3-hydroxytetradecyl]- $\alpha$ , $\beta$ -D-glucopyranoside according to claim 1, or a pharmacologically acceptable salt thereof.

19. Phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- $\alpha$ -D-glucopyranoside or

phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- $\beta$ -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- $\alpha$ -D-glucopyranoside according to claim 1, or a pharmacologically acceptable salt thereof.

20. A medicament comprising the compound according to any one of claims 1 to 19 as an active ingredient.
21. An agent for prophylaxis or treatment of inflammation, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
22. An agent for prophylaxis or treatment of an autoimmune disease, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
23. An agent for prophylaxis or treatment of sepsis, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
24. An immunosuppressive agent comprising the compound according to any one of claims 1 to 19 as an active ingredient.
25. A prognosis-improving agent after coronary artery bypass surgery, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
26. Use of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof for producing a pharmaceutical composition.
27. A method for prophylaxis or treatment of inflammation, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.

28. A method for prophylaxis or treatment of an autoimmune disease, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.
29. A method for prophylaxis or treatment of sepsis, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.
30. A method for immunosuppression, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.
31. A method for improving prognosis after coronary artery bypass surgery, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.